I hereby certify that this correspondence is being deposited with the United States Postal Service Express Mail Label No. **EV331047261US** in an envelope addressed to: Mail Stop Divisional Application, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on **November 25**, 2003

By Chianti Appling

Attorney Docket No. 407T-894302US Client Ref. No. 99-022-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bocian, David F. et al.

Application No.:

Filed: October 28, 2003

For: HIGH DENSITY NON-VOLATILE

MEMORY DEVICE

Examiner: Huan Hoang

Art Unit: 2818

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR § 1.97 and

§ 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on the attached PTO-1449 form are being called to the attention of the Examiner to make of record references cited in parent application USSN 10/053,814 (now U.S. Patent 6,657,884) filed January 18, 2002. Pursuant to 37 CFR § 1.98(d), copies of references cited in parent application USSN 10/053,814 (now U.S. Patent 6,657,884) filed January 18, 2002 are not provided. However the applicants will gladly provide fresh copies of any references requested by the Examiner.

It is respectfully requested that the cited information on the attached 1449 form(s) be expressly considered during the prosecution of this application, and that references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Bocian, David F. et al. Application No.: Page 2

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Tom Hunter, J.D., Ph.D.

Reg. No. 38,498

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

P.O. BOX 458 Alameda, CA 94501 (510) 337-7871

Fax (510) 337-7877

COPY FROM PARENT

Substitute for form 1449A-B/PTO	C	omplete if Known
	Application Number	10/053,814
INFORMATION DISCLOSURE	Filing Date	January 18, 2002
STATEMENT BY APPLICANT	First Named Inventor	David F. Bocian
	Group Art Unit	2818
	Examiner Name	Huan H ang
(use as many sheets as necessary)	Attorney Docket Number	407T-894301US
	Date Submitted	April 9, 2003

	1	T IIC Petent Decu		S. PATENT DOCUMENTS Name of Patentee or Applicant of	Date of Publication of	Pages, Columns, lines,
Examiner Initials	Cite No.	U.S. Patent Docu Number	Kind Code (if known)	Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appeal
	1	3,637,581		Horiguchi et al.	1/25/1972	
	2	3,833,894		Aviram et al.	9/3/1974	
:	3	4,618,509		Bulkowski	10/21/1986	
	4	4,663,270		Potember et al.	5/5/1987	
	5	4,670,860		Wilson	6/2/1987	
	6	4,728,724		Jones et al.	3/1/1988	
	7	4,781,443		Giles	11/1/1988	
	8	5,010,451		Ueyama et al.	4/23/1991	
	9	5,016,063		Beratan et al.	5/14/1991	
	10	5,035,835		Asakawa et al.	07/30/1991	
	11	5,063,417		Hopfield	11/5/1991	
	12	5,075,738		Matsuda et al.	12/24/1991	
	13	5,091,502		Narang et al.	2/25/1992	
	14	5,135,537		Eida et al.	8/4/1992	
	15	5,222,060		Kuroda et al.	6/22/1993	
	16	5,252,698		Bhardwaj et al.	10/12/1993	
	17	5,264,876		Kawade et al.	11/23/1993	
	18	5,280,183		Batzel et al.	1/18/1994	
	19	5,312,896		Bhardwaj et al.	5/17/1994	
	20	5,432,379		Eguchi et al.	7/11/1995	
	21	5,434,842		Weiss et al.	7/18/1995	
	22	5,463,014		Epstein et al.	10/31/1995	
	23	5,475,075		Brant et al.	12/12/1995	
	24	5,506,420		Kossovsky et al.	4/9/1996	
	25	5,525,811		Sakurai et al.	6/11/1996	
	26	5,539,100		Wasielewski et al.	7/23/1996	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COPY FROM PAREN (Modified) PTO/SB/08A-B (10-96) (Modified) PTO/SB/08A-B (10-96) (Approved for use through 10/31/99. OMB 0651-0031

Substitute for form 1449A-B/PTO	Complete if Known		
	Application Number	10/053,814	
NFORMATION DISCLOSURE	Filing Date	January 18, 2002	
STATEMENT BY APPLICANT	First Named Inventor	David F. B cian	
	Group Art Unit	2818	
	Examiner Name	Huan Hoang	
(use as many sheets as necessary)	Attorney Docket Number	407T-894301US	
	Date Submitted	April 9,2003	

27	5,547,774	Gimzewski et al.	8/20/1996	
28	5,707,845	Ueyama et al.	1/13/1998	
29	5,744,598	Skalkos et al.	4/28/1998	
30	5,804,850	Evans, Jr. et al.	9/8/1998	
31	5,814,420	Chu	9/29/1998	
32	5,840,443	Gregg et al.	11/24/1998	
33	5,844,055	Brandt et al.	12/1/1998	
34	5,858,666	Weiss	1/12/1999	
35	6,013,170	Meade	1/11/2000	
36	6,031,756	Gimzewski et al.	2/29/2000	
37	6,128,214	Kuekes et al.	10/3/2000	
38	6,208,553	Gryko et al.	3/27/2001	
39	6,212,093	Lindsey	4/3/2001	
40	6,272,038	Clausen et al.	8/7/2001	
41	6,324,091	Gryko et al.	11/27/2001	
42	6,381,169	Bocian et al.	4/30/2002	1
43	6,451,942	Li et al.	9/17/2002	

			Foreign Patent Docu	ument		Date of Publication	Pages, Columns, Lines,	T
Examiner Initials	Cite No.	Office	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T
	44	EP	0 272935	A3	Canon	6/29/1988		
	45	EP	0 307210	A2	Seiko	3/15/1989		
	46	EP	0 307211	A2	Seiko	3/15/1989		
	47	EP	0 363147	A2	Canon	4/11/1990		
	48	wo	99/24527	A1	OMD Devices	5/20/1999		
	49	wo	01/03126	A2	Univ. of California	1/11/2001		

Examiner	Date	
Signature	Considered	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COPY FROM PARENT

Substitute for form 1449A-B/PTO	C	Complete if Known		
	Application Number	10/053,814		
INFORMATION DISCLOSURE	Filing Date	January 18, 2002		
STATEMENT BY APPLICANT	First Named Inventor	David F. Bocian		
	Group Art Unit	2818		
	Examiner Name	Huan Hoang		
(use as many sheets as necessary)	Attorney Docket Number	407T-894301US		
	Date Submitted	April 9, 2003		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	50	"FerroceneMolecule of the Month" Jun. 1996, University of Oxford Web Page, http://www.ncl.ox.ac.uk/mom/ferrocene/ferrocene2.html.	
	51	"FerroceneSynthesis", Jun. 1996, University of Oxford Web Page, http://www.ncl.ox.ac.uk/mom/ferrocene/synthesis.html.	
	52	BALL ET AL. (2000) "Electrochemistry in Nanovials Fabricated by Combining Screen Printing and Laser Micromachining" Anal. Chem. 72: 497-501	
	53	BANSAL ET AL. (1998) "Electrochemical Properties of (111)-Oriented n-Si Surfaces Derivatized and Covalently-Attached Alkyl Chains" J. Phys. Chem. 102:7:1067-1070	
	54	BATEMAN ET AL. (1998) Alkylation of Porous Silicon by Direct Reaction with Alkenes and Alkynes" Angew. Chem. Int. Ed. 37:19:2683-2685	
	55	BOUKHERROUB ET AL. (1999) "Controleed Functionalization and Multistep Chemical Manipulation of Covalently Modified Si(111) Surfaces" J. Am. Chem. Soc. 21: 11513-11515	
	56	BRATTEN ET AL. (1997) Micromachining Sensors for Electrochemical Measurement in Subnanoliter Volumes" Anal. Chem. 69: 253-259	
	57	BUCHLER AND NG (2000) In <i>The Porphyrin Handbook, Vol. 3</i> , Pages 245-294, Eds. K. M. Kadish, K. M. Smith, R. Guilard, Academic Press, San Diego, CA	
	58	BURIAK ET AL. (1998) "Lewis Acid Mediated Functionalization of Porous Silicon with Substituted Alkeses and Alkynes" J. Am. Chem. Soc. 120: 1339-1340	
	59	CHABACH <i>ET AL</i> . (1996) "Mixed-Metal Triple-Decker Sandwich Complexes with the Porphyrin/Phthalocynine/Porphyrin Ligand System" <i>Angew</i> . Chem. Int. Ed. Engl., 35: 898	
	60	CLAUSEN ET AL. (2000) Investigation of Tightly Coupled Porphyrin Arrays Comprised of Identical Monomers for Multibit Information Storage" J. Org. Chem. 65: 7371-7378	
	61	CLELAND ET AL. (1995) "Direct Functionalization of Silicon via the Self-Assembly of Alcohols" J. Chem. Soc. Faraday Trans. 91(21) 4001-4003	
	62	CLARK ET AL. (1997) "Electrochemical Analysis in Picoliter Microvials" Anal. Chem. 69: 259-263	
	63	CLARK ET AL. (1998) "Characterization of Electrochemical Responses in Picoliter Volumes" Anal. Chem. 70: 1119-1125	
	64	COLLIER ET AL. (1999) "Electronically Configurable Molecular-Based Logic Gates" Science 265: 391-394	
	65	COTTON ET AL (1976) Basic Inorganic Chemistry, pp. 125, 497, 518	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, which is not conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

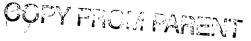
COPY FROM PARENT

Substitute for form 1449A-B/PTO	С	omplete if Known
	Application Number	10/053,814
INFORMATION DISCLOSURE	Filing Date	January 18, 2002
STATEMENT BY APPLICANT	First Named Inventor	David F. Bocian
	Group Art Unit	2818
	Examiner Name	Huan Hoang
(use as many sheets as necessary)	Attorney Docket Number	407T-894301US
_	Date Submitted	April 9, 2003

66	COULTER ET AL. (2000) "Reactions of Substituted Aromatic Hydrocarbons with the Si(001)Surface" J. Vac. Sci. Technol. A 18(4) 1965-1970	
67	DUCHOWSKI ET AL. (1990) Spectroscopic Characerization of Triple Decker Lanthanide Porphyrin Sandwich Complexes. Effects of Strong π π Interactions in Extended Assemblies" J Am. Chem. Soc. 112: 8807-8811	
68	GAVIN ET AL. (1996) "Continuous Separations with Microfabricated Electrophoresis- Electrochemical Array Detection" J. Am Chem. Soc. 118: 8932-8936	
69	GORMAN (1997) "Encapsulated Electroactive Molecules" Adv. Mater. 9(14) 1117-1119	
70	GORMAN (1999) "Molecular Structure-Property Relationships for Electron-Transfer Rate Attenuation in Redox-Active Core Dendrimers" J. Am. Chem. Soc. 121: 9958-9966	
71	GROSS (2001) "Investigation of Rational Synthesis of Heteroleptic Porphyrinic Lanthanide (Europium, Cerium) Triple-Decker Sandwich Complexes" Inorg. Chem. 40: 4762-4774	
72	GRYKO (2000) "Synthesis of Porphyrin-Linker-Thiol Molecules with Diverse Linkers for Studies of Molecular-Based Information Storage" J. Org. Chem. 65: 7345-7355	
73	GRYKO (2000) "Synthesis of Thiol-Derivatized Ferrocene-Porphrins for Studies of Multibit Information Storage" J. Org. Chem. 65: 7356-7362	
 74	GRYKO (2001) "Studies Related to the Design and Synthesis of a Molecular Octal Counter" J. Mater. Chem. 11: 1162-1180	
75	HYDE (1985) "Ellipsometric Measurements of the Pt-Aqueous Electrolyte Interface, in the Absence and in the Presence of Specific Anionic Adsorption" J. Electroanal. Chem. 186: 267-286	
76	JIANG ET AL. (1998) "Heteroleptic Triple-Decker (Phthalocyaninato)-Porphyrinato) Europium (III) Complexes: Synthesis and Electrochemical Study" Inorganica Chimica Acta 268: 49-53	
77	KOVACH ET AL. (1985) "Faradaic Electrochemistry at Microcylinder, Band, and Tubular Band Electrodes" 185: 285-295	
78	LI ET AL. (2000) "Synthesis of Thiol-Derivatized Europium Porphyrinic Triple-Decker Sandwich Complexes for Multibit Molecular Information Storage" J. Org. Chem. 65: 7379-7390	
79	NAGALE ET AL. (1998) "Individually Addressable, Submicrometer Band Electrode Arrays. 1. Fabrication from Multilayered Materials" Anal. Chem. 70: 2902-2907	
80	ROTH (2000) "Molecular Approach Toward Information Storage Based on the Redox Properties of Porphyrins in Self-Assembled Monolayers" J. Vac. Sci. Technol. B. 18(5) 2359- 2364	

Examiner	Date
Signature	Considered

^{*}EXAMINER: Initial if reference considered, whither or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO	Complete if Known		
	Application Number	10/053,814	
NFORMATION DISCLOSURE	Filing Date	January 18, 2002	
STATEMENT BY APPLICANT	First Named Inventor	David F. B cian	
	Group Art Unit	2818	
	Examiner Name	Huan Hoang	
(use as many sheets as necessary)	Attorney Docket Number	407T-894301US	
	Date Submitted	April 9, 2003	

8	1 RUBEN ET AL. (2000) "Multilevel Molecular Electronic Species: Electrochemical Reduction of a [2X2] Co4 Grid Type Complex by 11 Electrons in 10 Reversible Steps" Angew. Chem. Int. Ed. 39(22) 4139-4142
8	SOMMERAUER ET AL. (1996) "Separation of 1(3), 9(10), 16(17), 23(24)-Tetrasubstituted Phthalycyanines with Newly Developed HPLC Phases" J. Am Chem. Soc. 118: 10085-10093
8	WONG ET AL. (1974) "Lanthanide Porphyrin Complexes, A Potential New Class of Nuclear Magnetic Resonance Dipolar Probe" J. Am. Chem. Soc. 96(22) 7149-7150
8	ZHU ET AL. (1999) "Chemical Vapor Deposition of Organic Momolayers on Si(100) via Si-N Linkages" Langmuir 15: 8147-8154

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.